

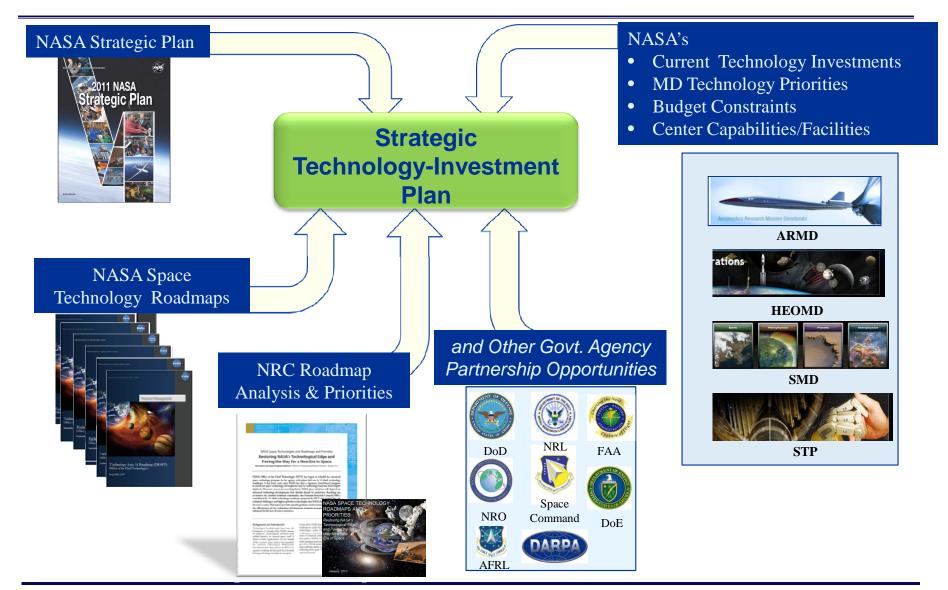


NASA Technology – A Path Forward

- Success in executing future NASA space missions will depend on advanced technology developments.
- NASA technology development efforts must address the needs of NASA's missions, enabling human exploration, scientific discovery, as well as contribute to critical national and commercial needs in space technology.
- Technologies prioritized in the NASA Space Technology Roadmaps and the NRC study represents a foundation upon which NASA can build a 4-Year NASA Strategic Technology-Investment Plan.
- WHAT IS A NASA STRATEGIC TECHNOLOGY-INVESTMENT PLAN?
 - A set of strategically linked technology investments
 - Planned and managed collectively
 - To ensure high priority goals are achieved
 - To avoid unnecessary duplication
 - To optimize the overall return and infusion
 - While maintaining allowable risk, schedule and resource allotments.



NASA Strategic Technology-Investment Plan





Creating the 4-Year NASA Strategic Technology-Investment Plan

Goal: 4-year Plan to guide Agency's Future Technology Investments.

- Guide Agency calls for technology proposals in FY 2013 to achieve priorities
- **Guide Agency technology partnering activities**
- Influence portions of the FY 2014 budget request that involve technology programs



Creating the 4-Year NASA Strategic Technology-Investment Plan

Development and Maintenance:

- Create 4-year plan (led by OCT with support from MD/Centers)
- Every year:
 - Provide cross-Agency guidance on aggregate technology-program content
- Every 2 years:
 - Update gap analysis and 4-year Strategic Technology-Investment Plan
 - NAC T&I provides independent sanity check of the plan
- **Every 4-years:**
 - Update 20 year Technology Roadmap evaluate state of art (including any new technology breakthroughs), incorporate new Decadals, MD design reference missions, etc
 - NRC evaluation of 20 year Technology Roadmap

Update Roadmaps				Update Roadmaps			
	NRC Review				NRC Review		
		Create Strat Plan		Update Strat Plan		Create Strat Plan	
2010	2011	2012	2013	2014	2015	2016	2017



Creating the 4-Year NASA Strategic Technology-Investment Plan

OCT SI will coordinate development of NASA Strategic Technology- Investment Plan with support from MD and Center Chief **Technologists**

- Finalize MD Technology priorities
- Generate list of current Agency technologies development activities/projects
- Identify budget constraints
- Identify Center technology capabilities/facilities
- Identify (OGA, commercial) partners with interest in gap areas
- Identifying gap areas
- Integrate roadmaps, NRC priorities and recommendations
- Prepare 4-year plan to fund technologies in gap areas



Plan Forward

Creating NASA Strategic Technology-Investment Plan	Due Date	
MD/Office Technology Priorities	April 30, 2012	
List of NASA Tech Development Projects/Activities	April 30, 2012	
List of MD/Office Cross Infusion Opportunities	April 30, 2012	
List of OGA Shared Needs and Partnership Opportunities	May 30, 2012	
Analysis – Agency Technology Investments vs. Gaps vs. NRC report	May 30, 2012	
Version #1 NASA 4-year Strategic Technology-Investment Plan for Agency Review	June 15, 2012	
Version #2 NASA 4-year Strategic Technology-Investment Plan	July 30, 2012	
Independent Assessment of NASA Strategic Technology-Investment	August 1, 2012 –	
Plan (NAC – T&I / Independent Deliberative Panel)	August 15, 2012	
Final NASA 4-year Strategic Technology-Investment Plan	September 15, 2012	

NTEC Discussion:

Redlines / Additions to Plan?

Concur on Plan?